

ORDER FOR SUPPLIES OR SERVICES										PAGE 1 OF 14																																					
1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. N68936-99-D-0031-			2. DELIVERY ORDER/ CALL NO. 0006		3. DATE OF ORDER/CALL 2001May01		4. REQ./ PURCH. REQUEST NO. N63126-1110-89XK			5. PRIORITY S1																																					
6. ISSUED BY CDR NAWCWD CODE 230000E ATTN: T. WINANS (805) 989-1601 575 "I" AVE SUITE 1, BLDG 65 POINT MUGU CA 93042-5049				CODE N68936		7. ADMINISTERED BY DCM BALTIMORE 217 E. REDWOOD, SUITE 1800 BALTIMORE MD 21202-5299				CODE S2101A																																					
8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)																																															
9. CONTRACTOR CTA INC STUART O. WITT 900 HERITAGE DR BLDG A RIDGECREST CA 93555				CODE 92710		FACILITY		10. DELIVER TO FOB POINT BY (Date) SEE SCHEDULE		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED																																					
12. DISCOUNT TERMS								13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15																																							
14. SHIP TO SEE SCHEDULE				CODE		15. PAYMENT WILL BE MADE BY DFAS - COLUMBUS CENTER & MOCAS SOUTH ENTITLEMENTS PO BOX 182264 COLUMBUS OH 43218-2264				CODE HQ0338																																					
MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">16. TYPE OF ORDER</td> <td style="width: 10%;">DELIVERY/ CALL</td> <td style="width: 5%; text-align: center;"><input checked="" type="checkbox"/></td> <td colspan="9" style="padding: 5px;">This delivery order/call is issued on another Govt. agency or in accordance with and subject to terms and conditions of above numbered contract.</td> </tr> <tr> <td></td> <td>PURCHASE</td> <td></td> <td colspan="9" style="padding: 5px;">Reference your quote dated _____</td> </tr> <tr> <td colspan="12" style="padding: 5px;"> ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME. </td> </tr> </table>												16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Govt. agency or in accordance with and subject to terms and conditions of above numbered contract.										PURCHASE		Reference your quote dated _____									ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.											
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17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE																																															
See Schedule																																															
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT	22. UNIT PRICE		23. AMOUNT																																				
		SEE SCHEDULE																																													
<i>* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle</i>						24. UNITED STATES OF AMERICA			25. TOTAL		\$1,471,660.00																																				
BY: NATHAN J SIMPSON						CONTRACTING / ORDERING OFFICER			29. DIFFERENCES																																						
26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED						27. SHIP NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		28. DO VOUCHER NO.		30. INITIALS																																					
DATE _____ SIGNATURE OF AUTHORIZED GOVT. REP. _____						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY		33. AMOUNT VERIFIED CORRECT FOR																																					
36. I certify this account is correct and proper for payment.										34. CHECK NUMBER																																					
DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____										35. BILL OF LADING NO.																																					
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.		42. S/R VOUCHER NO.																																					

SECTION B Supplies or Services and Prices

I. SUPPLIES/SERVICESCLIN DESCRIPTION

0001 Have Ham Modulator Subsystem (SOW 3.1)

MAX ESTIMATED COST

\$ _____

BASE FEE

\$ _____

MAX AWARD FEE

\$ _____

TOTAL COST + AWARD FEE

\$ _____

MATERIAL ESTIMATED COST

\$ _____

MATERIAL FEE

\$ _____

CLIN TOTAL

\$ _____

0002 Have Ham Modulator Circuit Card Assemblies (SOW 3.2)

MAX ESTIMATED COST

\$ _____

BASE FEE

\$ _____

MAX AWARD FEE

\$ _____

TOTAL COST + AWARD FEE

\$ _____

MATERIAL ESTIMATED COST

\$ _____

MATERIAL FEE

\$ _____

CLIN TOTAL

\$ _____

0003 Have Ham Circuit Card Assemblies (SOW 3.3)

MAX ESTIMATED COST

\$ _____

BASE FEE

\$ _____

MAX AWARD FEE

\$ _____

TOTAL COST + AWARD FEE

\$ _____

MATERIAL ESTIMATED COST

\$ _____

MATERIAL FEE

\$ _____

CLIN TOTAL

\$ _____

0004 Technique Controller Modulator (TCM) (SOW 3.4)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0005 Technique Controller Modulator CPU and CPUIF Card Sets (SOW 3.5)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0006 Technique Controller Modulator RFI Cards (SOW 3.6)**0006AA** SOW 3.6.1 (Sixteen Each)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0006AB SOW 3.6.2 (Five Each)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0007 TCM Dual Serro Cards (SOW 3.7)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0008 TCM RGS AM Cards (SOW 3.8)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0009 TCM Noise and Noise RF Cards (SOW 3.9)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

0010 Radar Transmitting Set (SOW 3.10)

MAX ESTIMATED COST
BASE FEE
MAX AWARD FEE
TOTAL COST + AWARD FEE
MATERIAL ESTIMATED COST
MATERIAL FEE
CLIN TOTAL

\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____
\$ _____

This task order is _____ SEVERABLE X NON-SEVERABLE

II. FUNDING PLAN

Base Fee and Award Fee will be paid in accordance with Section B of the basic contract. Award Fee schedule and allocation by period appears in Attachment (2) to this order.

Reimbursement of allowable cost shall not exceed the aggregate amounts indicated below, and the contractor will not be reimbursed by the Government for allowable costs incurred hereunder in excess of such amount. The estimated total cost, base fee plus award fee, and CPAF of this task order are as follows:

Estimated Cost (Incl. Materials):	
Estimated Base Fee Plus Award Fee:	
Estimated CPAF:	\$1,471,660

In accordance with the clause entitled "Limitation of Cost (APR 1984)" FAR 52.232-20, the amount presently available for payment by the Government and allotted to this Task Order is [REDACTED]. This amount covers the entirety of CLIN 0006AA.

CLINs 0001 – 0005 and 0007 – 0010 remain unfunded. The contractor shall not commence performance under CLINs 0001 – 0005 and 0007 – 0010 until funding is provided.

ACCOUNTING AND APPROPRIATION DATA:

See Section G herein.

The incremental funding is allocated to CLIN 0006AA only, as follows:

Estimated Cost (Incl. Materials):		
Estimated Base Fee Plus Award Fee:		
Estimated CPAF:		

The balance to fully fund the Task Order is [REDACTED]. The incremental funding awarded as of this modification will provide for approximately [REDACTED] of the effort.

III. SCOPE

The scope of this Task Order is contained within the Statement of Work (SOW), Attachment (1), dated 4/25/01, entitled: "TASK ORDER 0006 THREAT SIMULATORS SUBSYSTEM SUPPORT."

IV. PLACE OF DELIVERY/FOB DESTINATION

The articles to be furnished shall be delivered and all transportation charges paid by the supplier to the Naval Air Warfare Center, Weapons Division, Point Mugu, CA.

Deliveries will be accepted Monday through Thursday from 8:00 AM to 4:30 PM. No deliveries will be received on Fridays.

Contract Data Requirement Lists (CDRLs) and their associated Data Item Descriptions (DIDs) are contained in Exhibit (1) and (2).

V. INSPECTION AND ACCEPTANCE

Inspection and acceptance will be performed at destination by the Contracting Officer's Representative (COR).

VI. SHIP TO/MARK FOR

Each shipment will be clearly marked to show the following information:

SHIP TO:

Receiving Officer

NAWCWD

Point Mugu, CA 93042

MARK FOR:

Contract Number: N68936-99-D-0031

Delivery Order 0006

ATTN: Tom Williams, Code 539400E

VII. PERIOD OF PERFORMANCE

The period of performance for CLIN 0006AA is from May 1, 2001 to April 30, 2002, a period of twelve (12) months. The delivery schedule for the other CLINs will be established at the time of their funding. The overall period of performance of this Task Order shall not exceed 14 July 2003.

VIII. TRAVEL

Approval for travel shall be obtained in writing from the COR in advance of travel.

Costs associated with any travel not so approved by the COR will be disallowed.

IX. CONTRACTING OFFICER'S REPRESENTATIVE (COR)

The COR is responsible for monitoring the performance, progress and overall technical management of this task order. The contractor should contact the COR regarding technical questions or problems. Any deviation from the terms of this order effected by the contractor and anyone else other than the cognizant Contracting Officer will not bind the Government.

The only exceptions to this limitation are those deviations formalized by proper contractual documents executed by the Contracting Officer before this task order is complete. Deviations include understanding, agreements, modifications, and change orders.

The contractor will provide the Contracting Officer with written notification whenever he believes that the COR has requested any effort outside the scope of this order. The contractor shall not act under such technical instruction until the Contracting Officer has determined whether such effort is within the scope of the order. If the Contracting Officer determines that the requested effort is outside the scope of the order, the contractor need only perform after the Contracting Officer issues a change order. On all problems that pertain to the terms of the contract or task order, the contractor will contact the Contracting Officer.

Contracting Officer:

Mr. Nathan Simpson
Naval Air Warfare Center, Weapons Division
Code 230000E, Building 65
Point Mugu, CA 93042-5001
(805) 989-1303 DSN 351-1303
FAX (805) 989-3656 or FAX DSN 351-3656

COR:

Ms. Rosie Vorwerk
Naval Air Warfare Center, Weapons Division
Code 535000D
(760) 939-0260

Technical Assistant (TA):

Mr. Tom Williams
Naval Air Warfare Center, Weapons Division
Code 539400E
Point Mugu, CA 93042-5001
(805) 989-3538 or DSN 351-3538

SECTION G Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

ACRN:

AA: 1711507 J2EM 311 B2208 0 068342 2D N63126 EM300 000 150P

AMOUNT:

REQUISITION NO.: N63126-1110-89XX

JOB ORDER NO.: C534J1BBC100 (Exp. 30 Sep 03)

REFERENCE DOCUMENT NO.: N0001901RXB209W

REFERENCE DOCUMENT ACRN: AA

SECTION J List of Documents, Exhibits and Other Attachments

Table Of Contents

DOCUMENT TYPE	DESCRIPTION	PAGES	DATE
Attachment 1	SOW	7	4/25/01
Attachment 2	AWARD FEE PLAN	12	4/19/01
Exhibit 1	CDRLs A001 through A003	2	3/07/01
Exhibit 2	DID DI-ADMIN-80925	2	01/05/90
	DID DI-NDTI-80809B	4	01/24/97
	DID DI-MGMT-80555	2	3/30/88

NOTE: Attachment 2, and Exhibits 1 and 2, are not included herein due to the limitation of PD2 Application to accept PDF, Excel, and FileMakerPro files. They are therefore delivered to NAFI as separate files as well.

ATTACHMENT (1)**TASK ORDER 0006****THREAT SIMULATORS SUBSYSTEM SUPPORT****STATEMENT OF WORK
(ATSO2)**

1.0 SCOPE. The Contractor shall design, develop, prototype, fabricate and test the subsystems listed below for the AN/ULQ-21(V), AN/ALQ-167 ECM Simulators and various Threat Radar Simulators. Each subsystem provided by the Contractor shall be based on the Government's applicable specification and/or current drawing package.

2.0 APPLICABLE DOCUMENTS2.1 Military Standards

MIL-DTL-31000 Technical Data Packages

MIL-STD-100 Engineering Drawings

MIL-STD-130 Identification Marking of U.S. Military Property

MIL-STD-461 Requirements For Control of Electromagnetic Interference Characteristics of Sub-Systems and Equipment

MIL-STD-704 Aircraft Electric Power Characteristics

MIL-STD-810 Environmental Test Methods - Engineering Guidelines (Guidance Only)

2.1.1 Other Government and Industrial Documents

1611AS9650	Have Ham Modulator Technical Data Package (TDP)
1611AS11862	Have Ham Modulator CPU CCA Technical Data Package
1611AS11863	Have Ham Modulator RGS CCA Technical Data Package
1611AS11869	Have Ham Modulator Serro CCA Technical Data Package
1611AS11874	Have Ham Modulator ICU CCA Technical Data Package
1611AS11878	Have Ham CPU CCA Technical Data Package
1611AS11882	Have Ham AM CCA Technical Data Package
1611AS11886	Have Ham ICU CCA Technical Data Package
1611AS11895	Have Ham Analog Receiver CCA Technical Data Package
1611AS11891	Have Ham Digital Receiver CCA Technical Data Package
1611AS12320	Technique Controller Modulator (TCM) Chassis TDP
1611AS12366	CPUIF Circuit Card Assembly
1611AS12382	Dual Serro Circuit Card Assembly
1611AS12370	RGS AM Circuit Card Assembly
1611AS12378	Noise and Noise RF Circuit Card Assembly
1611AS149	Receiver, Transmitter, Radar (IFM)
1236AS2100	Radar Transmitting Set (UPT-2A)
1236AS2230	Radar Transmitting Set (UPT-2X)
1611AS989	Memory Modulator (Tadpole)
1611AS1540	Memory Modulator (E/F Band Target Generator)
1611AS732-2	Modulator, Polarization
ISO 9000	International Standards Organization Quality Standard

2.1.2 Specifications/ Technical Requirements Documents

ATS-TRD-103	Technique Controller Modulator (TCM)
ATS-TRD-104	Technique Controller Modulator Central Processor Unit (CPU CCA)
ATS-TRD-105	Technique Controller Modulator Central Processor Unit Interface (CPU I/F CCA)
ATS-TRD-106	Technique Controller Modulator RF Circuit Card Assembly (RF CCA)#1
ATS-TRD-107	Technique Controller Modulator Noise Circuit Card Assembly (NZE CCA)
ATS-TRD-108	Technique Controller Modulator Dual Serro Circuit Card Assembly (Dual Serro CCA)
ATS-TRD-109	Technique Controller Modulator Range Gate Stealer AM Circuit Card Assembly (RGS CCA)
13672-EW319	Receiver, Transmitter, Radar (IFM)
ATS-SP635	Radar Transmitting Set (UPT-2A)
ATS-SP-663	Radar Transmitting Set (UPT-2X)
13672-EW316	Modulator, Memory (Tadpole)
13672-EW316	Modulator, Memory (E/F Band Target Generator)
13672-EW1201A	Modulator, Polarization

3.0 REQUIREMENTS. The Contractor shall fabricate and deliver hardware and update documentation for the following ECM simulator subsystems: HAVE HAM Modulator, Have Ham Modulator Circuit Card Assemblies, HAVE HAM Circuit Card Assemblies, Technique Controller Modulator (TCM), Technique Controller Modulator Circuit Card Assemblies, Radar Transmitting Set (UPT-2X). Tasking shall include existing subsystem variant design; subsystems fabrication; documentation updates reflecting current designs/fabricated subsystems; and verification and validation of existing design documentation. This effort shall be performed under the premises of ISO-9000.

3.1 Have Ham Modulator. The Contractor shall provide five (5) Have Ham Modulators. The modulator shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate

vendors, availability of parts, and manufacturing processes to reduce cost and improve modulator capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional modulator procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

The Contractor shall design, conduct and provide test data for all individual RF components, cables and wiring harnesses within each unit. This shall include capturing the performance characteristic of each part within the system (i.e. Amplifier power, saturation level, loss.). The Contractor shall also conduct an acceptance test in accordance with the requirements referenced in SOW paragraph 2.1.1. The contractor shall provide a summary of all test results with each modulator delivered in accordance with CDRL A002. The Contractor shall provide engineering and test support at the Government's Pt. Mugu facility for final checkout and systems integration.

3.2 Have Ham Modulator Circuit Card Assemblies. The Contractor shall provide thirteen (13) sets of Have Ham Modulator Circuit Card Assemblies (CCAs). These CCAs sets shall consist of one Have Ham Modulator CPU, one Have Ham Modulator RGS, two each Have Ham Modulator Serro, and one Have Ham Modulator ICU CCAs. The Have Ham Modulator CCAs shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve modulator capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional Have Ham Modulator CCAs procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.3 Have Ham Circuit Card Assemblies. The Contractor shall provide thirteen (13) sets of Have Ham Circuit Card Assemblies (CCAs). These sets shall consist of one Have Ham CPU CCA, one Have Ham AM CCA, One Have Ham ICU CCA, one Analog Receiver CCA and One Digital Receiver CCA. The circuit card assemblies shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve modulator capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional circuit card assembly procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.4 Technique Controller Modulator (TCM). The Contractor shall provide five (5) Technique Controller Modulators. The Technique Controller Modulator shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve Technique Controller Modulator capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a

Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional Technique Controller Modulator procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

The Contractor shall design, conduct and provide test data for all individual RF components, cables and wiring harnesses within each unit. This shall include capturing the performance characteristic of each part within the system. The Contractor shall also conduct an acceptance test in accordance with the requirements referenced in SOW paragraph 2.1.1. The contractor shall provide a summary of all test results with each modulator delivered in accordance with CDRL A002. The Contractor shall provide engineering and test support at the Government's Pt. Mugu facility for final checkout and systems integration.

3.5 Technique Controller Modulator (TCM) CPU and CPUIF Card Sets. The Contractor shall provide five (5) Technique Controller Modulator CPU and CPU Interface (CPUIF) card sets. The cards shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve card capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional card procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.6 Technique Controller Modulator RF1 Cards. The Contractor shall provide a minimum of five (5) and a maximum of twenty one (21) Technique Controller Modulator RF1 Modules, in the quantities listed in the following paragraphs. The modules shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve card capability/ upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional module procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

The Contractor shall conduct an acceptance test in accordance with the requirements referenced in SOW paragraph 2.1.1. The contractor shall provide a summary of all test results with each card delivered in accordance with CDRL A002. The Contractor shall provide engineering and test support at the Government's Pt. Mugu facility for final checkout and systems integration.

3.6.1 Sixteen (16) each RF1 Modules.

3.6.2 Five (5) each RF1 Modules

3.7 Technique Controller Modulator Dual Serro Cards. The Contractor shall provide five (5) Technique Controller Modulator Dual Serro cards. The cards shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve card capability/ upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001.

Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional card procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.8 Technique Controller Modulator RGS AM Cards. The Contractor shall provide five (5) Technique Controller Modulator RGS AM cards. The cards shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve card capability/ upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional card procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.9 Technique Controller Modulator Noise and Noise RF Cards. The Contractor shall provide five (5) Technique Controller Modulator Noise cards. The cards shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve card capability/ upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional card procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

3.10 Radar Transmitting Set (UPT-2X). The Contractor shall provide five (5) Radar Transmitting Sets (UPT-2X). The Radar Transmitting Set shall meet the drawing package requirements referenced in paragraph 2.1.1 and shall incorporate any new design specifications and/or requirements provided by the Government. The Contractor shall analyze and research the use of alternate vendors, availability of parts, and manufacturing processes to reduce cost and improve Radar Transmitting Set capability/upgradeability. The Contractor shall document any proposed design changes and obtain approval from the Government prior to upgrade fabrication in accordance with CDRL A001. Upon Government approval the Contractor shall update all design documentation to reflect the as-built configuration. The Contractor shall generate documentation on a Government approved Contractor CAD/CAE system in accordance with SOW paragraph 2.1, at a level of detail sufficient for additional Radar Transmitting Set procurement in accordance with CDRL A001. All documentation shall conform to the current drawing package's use of nomenclature and format unless otherwise directed.

The Contractor shall conduct an acceptance test in accordance with the requirements referenced in SOW paragraph 2.1.1. The contractor shall provide a summary of all test results with each Radar Transmitting Set delivered in accordance with CDRL A002. The Contractor shall provide engineering and test support at the Government's Pt. Mugu facility for final checkout and systems integration.

4.0 SCHEDULE. Work shall commence upon award of this task order based on CLIN releases. Completion of all work is scheduled for 14 July 2003. The Contractor shall provide a proposed schedule for each CLIN prior to start of work.

The period of performance will be as follows:

Have Ham Modulator	(3.1)	12 months after exercised
Have Ham Modulator Circuit Card Assemblies	(3.2)	12 months after exercised
Have Ham Circuit Card Assemblies	(3.3)	12 months after exercised
Technique Controller Modulator (TCM)	(3.4)	12 months after exercised
CPU and CPUIF Circuit Card Assemblies	(3.5)	12 months after exercised
RF1 Circuit Card Assembly	(3.6)	12 months after exercised
Dual Serro Circuit Card Assembly	(3.7)	12 months after exercised
RGS AM Circuit Card Assembly	(3.8)	12 months after exercised
Noise and Noise RF Circuit Card Assemblies	(3.9)	12 months after exercised
Radar transmitting Set (UPT-2X)	(3.10)	12 months after exercised

5.0 SPECIAL CONSIDERATIONS

5.1 Technical Coordinator

The Technical Coordinator for this task order is:

Tom Williams

Code 539400E

NAWCWPNS, Pt Mugu

Telephone (805) 989-583-3538

Alternate Technical Coordinator:

Ben Rasnick

Code 539400E

NAWCWPNS, Pt Mugu

Telephone (805) 989-3538

5.2 Drawings. The drawings listed in SOW paragraph 2.1.1 will be provided as Government Furnished Data (GFD) to the Contractor for the subsystems referenced in SOW paragraph 3.0. Any additional required data shall be identified by the Contractor during the course of work. The Contractor shall identify documentation that is maintained at the Contractor's facility.

5.3 Test Equipment. In order to facilitate the development of ATE capability referenced in paragraph 3.4 the Government will furnish both an AN/USM-641 and an AN/GLM-10 test set as Government Furnished Test Equipment (GFE).

5.4 Individual Test Equipment. To reduce overall program costs the following specialized test equipment will be loaned on an as-required basis as GFE to the Contractor to support Contractor subsystem-level fabrication and testing efforts:

8328A Transmission Line Test Set

Manufacturer: Hewlett Packard

Quantity: 1

494P Programmable Spectrum Analyzer

Manufacturer: Tektronics

Quantity: 1

8672A Synthesized Signal Generator

Manufacturer: Hewlett Packard

Quantity: 1

436A Power Meter
Manufacturer: Hewlett Packard
Quantity: 1

5.5 Government Furnished Material. In order to reduce delivery time the Contractor may request the loan of long lead items in Government stock with subsequent replenishment. The material may be provided at the Government's option if existing or projected stock levels will not negatively impact the Government.

5.6 Security Classification. UNCLASSIFIED

5.7 Travel. Non-local travel may be required in the performance of this delivery order to participate in technical interchange meetings and to research/gather technical information at Point Mugu. Attendance at Technical Interchange and Research Meetings on site at Pt. Mugu, CA is required within 72 hours of initial government request. Travel estimates shall be based upon a maximum of 18 trips for three (3) people to Pt. Mugu, CA.

5.8 Reports. In support of this task order, the Contractor will deliver a monthly status report that includes a summary of work performed, problems encountered, problems resolved, current schedules and information, including period and cumulative funds/hours expended, in accordance with CDRL A003. This report will be provided to the Technical Coordinator no later than 10 working days following the end of the Contractor's monthly accounting period.